QC ABSTRACT

NAME OF WORK: Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No -02 of Yelahanka Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	GSB	SIEVE ANALYSIS	One Test		1	1
2	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
3	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
4	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
5	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
6	TACK COAT	Rate of spread	One Test		1	1

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2020-07-02-01 **Date: 22-06-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No -02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-20
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	20-06-20
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

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TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2020-07-02-01** **Date: 26-06-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No - 02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-06-20
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	24-06-20

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2020-07-02-01** **Date: 26-06-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No -02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-06-20
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	24-06-20

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Date: 30-06-20

Lab ID	:	**CP-RW-2020-07-02-01**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No -02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-20
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	27-06-20

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	14.0		
Strength	Aggregate Impact Value	18.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2020-07-02-01** **Date: 30-06-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No -02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-20
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	27-06-20

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2020-07-02-01** **Date: 30-06-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No -02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-20
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of test	:	27-06-20

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

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No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Date: 07-07-20

Lab ID	:	CP-RW-2020-07-02-01
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No -02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	06-07-20
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	06-07-20

Slno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.8	5.2
4	Average percentage	%	5.0	

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2020-07-02-01 **Date: 03-07-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No - 02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-20
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	01-07-20
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2020-07-02-01** **Date: 04-07-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No -02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-20
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	01-07-20

AE-2

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	CP-RW-2020-07-02-01 **Date: 08-07-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No -02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	07-07-20
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	07-07-20

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	6.00
4	Average percentage	%	5.9	

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2020-07-02-01** **Date: 27-06-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No -02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-20
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	25-06-20

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	CP-RW-2020-07-02-01 **Date: 08-07-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Synikavihara Layout Cross Roads in Chowdeshwari Ward No -02 of Yelahanka Sub Division
Agency	:	Sri.G.Venkategowda, No:B3-11, 12th B Main Road, Near Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/60/2020-21
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-20
Type of Mix	:	Tack coat
Date of test	:	07-07-20

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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